

# PATENT ABSTRACTS OF JAPAN

(11)Publication number : 2000-288575

(43)Date of publication of application : 17.10.2000

(51)Int.Cl.

C02F 3/12

B01D 65/02

C02F 1/44

(21)Application number : 11-100333

(71)Applicant : ISHIKAWAJIMA HARIMA  
HEAVY IND CO LTD

(22)Date of filing : 07.04.1999

(72)Inventor : ENDO TAKESHI  
OTSUKI TOSHI  
FUKUNAGA SAKAE

## (54) WASTE WATER TREATMENT METHOD AND APPARATUS

(57)Abstract:

PROBLEM TO BE SOLVED: To easily wash a membrane unit and to continue the treatment of raw water at the time of the washing of the membrane unit.

SOLUTION: An activated sludge tank in which a membrane unit 1 is arranged in an immersed state is divided into a plurality of independent unit tanks 4a, 4b, 4c constituted so as to be operated and stopped individually. The operation only of the unit tank of which the membrane unit 1 must be washed is stopped and activated sludge in the unit tank is transferred to empty the tank and the membrane unit 1 is washed in the empty unit tank. The treatment of raw water is continued in the remaining unit tanks without stopping operation.

